



### Apple IIGS #63: Master Color Values

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This Technical Note documents master color values used for the Apple IIGS text, text background, and border colors.

**Changes since July 1989:** Added information on the standard QuickDraw II 640-mode color table and provided a 320-mode color table that produces similar colors.

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#### Border Color Values

There are times when you may want to make parts of the IIGS Super Hi-Res screen the same color as the text, text background, and border colors. This is particularly useful when using the Apple II Video Overlay Card. Table 1 lists each color using the names from the Control Panel CDA, the color register values used for that color by the color registers, and the master color value used for that color by the Super Hi-Res screen.

| Color Name  | Color Register Value | Master Color Value |
|-------------|----------------------|--------------------|
| Black       | \$0                  | \$0000             |
| Deep Red    | \$1                  | \$0D03             |
| Dark Blue   | \$2                  | \$0009             |
| Purple      | \$3                  | \$0D2D             |
| Dark Green  | \$4                  | \$0072             |
| Dark Gray   | \$5                  | \$0555             |
| Medium Blue | \$6                  | \$022F             |
| Light Blue  | \$7                  | \$06AF             |
| Brown       | \$8                  | \$0850             |
| Orange      | \$9                  | \$0F60             |
| Light Gray  | \$A                  | \$0AAA             |
| Pink        | \$B                  | \$0F98             |
| Light Green | \$C                  | \$01D0             |
| Yellow      | \$D                  | \$0FF0             |
| Aquamarine  | \$E                  | \$04F9             |
| White       | \$F                  | \$0FFF             |

**Table 1—Master Color Values**

The *Apple IIGS Hardware Reference* documents the color registers at \$C022 and \$C034, and the *Apple IIGS Toolbox Reference*, Volume 2 documents the master color values.

**Standard 640-mode Color Table**

The description of dithering on pages 16-35 and 16-36 of Apple IIgs Toolbox Reference, Volume 2 is correct, but some of the color values in Table 16-5 are incorrect. Table 2 lists the standard QuickDraw II 640-mode color table:

| Color Table Offset | Color Name   | Master Color Value |
|--------------------|--------------|--------------------|
| \$0                | Black        | \$0000             |
| \$1                | Red          | \$0F00             |
| \$2                | Green        | \$00F0             |
| \$3                | White        | \$0FFF             |
| \$4                | Black        | \$0000             |
| \$5                | Blue         | \$000F             |
| \$6                | Yellow-green | \$0FF0             |
| \$7                | White        | \$0FFF             |
| \$8                | Black        | \$0000             |
| \$9                | Red          | \$0F00             |
| \$A                | Green        | \$00F0             |
| \$B                | White        | \$0FFF             |
| \$C                | Black        | \$0000             |
| \$D                | Blue         | \$000F             |
| \$E                | Yellow-green | \$0FF0             |
| \$F                | White        | \$0FFF             |

**Table 2—Standard 640-mode Color Table**

Table 3 shows Master Color values you can use in 320-mode to get close approximations of the sixteen standard 640-mode “solid” (really dithered) 640-mode colors.

| Color Table Offset | Color Name      | Master Color Value |
|--------------------|-----------------|--------------------|
| \$0                | Black           | \$0000             |
| \$1                | Deep Blue       | \$0008             |
| \$2                | Yellow-brown    | \$0880             |
| \$3                | Gray            | \$0888             |
| \$4                | Red             | \$0800             |
| \$5                | Purple          | \$0808             |
| \$6                | Orange          | \$0F80             |
| \$7                | Pink            | \$0F88             |
| \$8                | Dark Green      | \$0080             |
| \$9                | Aqua            | \$0088             |
| \$A                | Bright Green    | \$08F0             |
| \$B                | Pale Green      | \$08F8             |
| \$C                | Gray            | \$0888             |
| \$D                | Periwinkle Blue | \$088F             |
| \$E                | Yellow          | \$0FF8             |
| \$F                | White           | \$0FFF             |

**Table 3—Standard 640-mode Color Table****Further Reference**

- *Apple IIgs Hardware Reference*, pp. 58, 76-78
- *Apple IIgs Toolbox Reference*, Volume 2, p. 16-31

